SECTION - B

Q-4. Find the square root of
$$\frac{1}{x+1}$$
 = $2\sec^2\theta$

Q-5. simplify
$$\frac{\frac{2n}{3}}{(18)^{-\frac{n}{2}}} \times \frac{\frac{n}{3}}{(18)^{-\frac{n}{2}}}$$

- Define any two of the following and draw the figure. Q-6. Trapezoid. Circum circle o a triangle. Adjacent Angles.
- Find the H.C.F o the polynomials by division method.
- 4x 3x 24x 9 and $8x^3 2x^2 53x 39$.
- if $A = \{a,b\}$, $B = \{2,3\}$ and $C = \{3,4\}$, then find $A \times (B C)$ and $A \times (B\Delta C)$
- Prove that $log_b m = log_a m$. $log_b a$ Q-9.
- Find the value of $x^3 + y^3$ when x + y = -5 and xy = 8. Q-10.
- Two numbers are in the ratio 7:8 and their sum is 105. Find the number. Q-11.
- Solved the equations by using Cramer's rule. 2x + 5y = 9, 4x-2y = 1Q-12:
- Prove that, if a perpendicular is drawn from the centre of a circle to a Q-13: chord, it bisects the chord
- Q-14: Eliminate x from the equation. $x + \frac{1}{x} = 2p$, $x \frac{1}{x} = 2q + 1$
- Solve the equation by completing square: $2x^2 + 10x 48 = 0$ Q -15: